

IN THE CLAIMS

1. (Previously Presented) In a browser, a method for transferring information between logic entities in browser pages, the method comprising the steps of:
  - defining a data element having a value for use by a first application logic entity in a first browser page;
  - generating a browser page identifier for a second browser page, the browser page identifier including the value for the data element;
  - invoking access to a second browser page using the browser page identifier, the second browser page including a second application logic entity;
  - and
  - retrieving the value of the data element from the browser page identifier for use by the second application logic entity;
  - wherein the step of generating a browser page identifier includes steps of:
    - i) extracting a value for each data element shared between the first application logic entity and the second application logic entity to create a value array;
    - ii) obtaining a page designator for the second browser page; and
    - iii) appending the value array containing the values for each data element to the page designator for the second browser page to form the browser page identifier; and
  - wherein the browser page identifier is a uniform resource locator that is dynamically generated via the steps of extracting, obtaining and appending and that contains the value of the data element shared by the first application logic entity and the second application logic entity.
2. (Original) The method of claim 1 wherein the step of defining a data element includes the steps of:
  - declaring a data element for use by a first application logic entity; and

providing a value for the data element.

3. (Original) The method of claim 2, wherein the step of providing a value for the data element comprises the step of:

retrieving the value for the data element from a browser page identifier identifying the first browser page.

4. (Original) The method of claim 3 wherein the step of retrieving a value of the data element from a browser page identifier identifying the first browser page includes the steps of:

parsing the browser page identifier to retrieve a value for a data element from the browser page identifier;

assigning the value to the data element that corresponds to the value parsed from the browser page identifier; and

repeating the steps of parsing and assigning for each value contained in the browser page identifier such that all data elements containing a value within the browser page identifier receive an assignment of their respective value parsed from the browser page identifier.

5. (Canceled)

6. (Canceled)

7. (Original) The method of claim 1 further including the step of:

detecting a navigation command to navigate to the second browser page;  
and

wherein the steps of generating and invoking are performed in response to the step of detecting the navigation command to navigate to the second browser page, such that the browser page identifier produced in response to the step of detecting the navigation command includes a value for the data element that is

created by the first application logic entity and is passed to the second application logic entity via the browser page identifier.

8. (Original) The method of claim 1 wherein:

the steps of generating and invoking are performed by a state sender logic entity; and

wherein the step of retrieving is performed by a state retrieval logic entity;

the state sender logic entity and state retrieval logic entity being logic entities incorporated into the first browser page and second browser page which interoperate to transfer values of data elements shared by the first application logic entity and the second application logic entity between the first browser page and the second browser page via incorporation of such values of data elements into browser page identifiers.

9. (Original) The method of claim 8 wherein:

the first application logic entity and the second application logic entity collectively form an application; and

wherein the values of data elements shared by the first application logic entity and the second application logic entity collectively form state information that the state sender logic entity and the state retrieval logic entity can pass between the first browser page and second browser page via browser page identifiers for use by the application.

10. (Previously Presented) A computer system comprising:

a processor;

a memory system; and

an interconnection mechanism coupling the processor and the memory system;

wherein the memory system is encoded with a browser application that, when performed on the processor, provides a browser that causes the computer

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system to transfer information between logic entities in browser pages by performing the operations of:

defining a data element having a value for use by a first application logic entity in a first browser page in the memory system;

generating a browser page identifier for a second browser page in the memory system, the browser page identifier including the value for the data element;

invoking access to a second browser page using the browser page identifier, the second browser page including a second application logic entity in the memory system; and

retrieving the value of the data element from the browser page identifier for use by the second application logic entity in the memory system;

wherein when the browser performs the operation of generating a browser page identifier, the browser performs the operations of:

i) extracting a value for each data element shared between the first application logic entity and the second application logic entity to create a value array;

ii) obtaining a page designator for the second browser page; and

iii) appending the value array containing the values for each data element to the page designator for the second browser page to form the browser page identifier; and

wherein the browser page identifier is a uniform resource locator that is dynamically generated by the browser via the operations of extracting, obtaining and appending and that contains the value of the data element shared by the first application logic entity and the second application logic entity.

11. (Original) The computer system of claim 10 wherein when the browser performs the operation of defining a data element, the browser performs the operations of:

declaring, in the memory system, a data element for use by a first application logic entity in the first browser page; and  
providing a value for the data element in the memory system.

12. (Original) The computer system of claim 11, wherein when the browser performs the operation of providing a value for the data element, the browser performs the operation of:

retrieving the value for the data element from a browser page identifier identifying the first browser page.

13. (Original) The computer system of claim 12, wherein when the browser performs the operation of retrieving a value of the data element from a browser page identifier identifying the first browser page, the browser performs the operations of:

parsing the browser page identifier to retrieve a value for a data element from the browser page identifier in the memory system;

assigning the value to the data element that corresponds to the value parsed from the browser page identifier in the memory system; and

repeating the operations of parsing and assigning for each value contained in the browser page identifier such that all data elements containing a value within the browser page identifier receive an assignment of their respective value parsed from the browser page identifier.

14. (Canceled)

15. (Canceled)

16. (Original) The computer system of claim 10 wherein the browser further causes the computer system to perform the operations of:

detecting a navigation command to navigate to the second browser page;  
and

wherein the operations of generating and invoking are performed in response to the operation of detecting the navigation command to navigate to the second browser page, such that the browser page identifier produced in response to the operation of detecting the navigation command includes a value for the data element that is created by the first application logic entity and is passed to the second application logic entity via the browser page identifier.

17. (Original) The computer system of claim 10 wherein:

the operations of generating and invoking are performed by a state sender logic entity that operates within the browser as the browser operates on the processor; and

wherein the operation of retrieving is performed by a state retrieval logic entity;

the state sender logic entity and state retrieval logic entity being logic entities incorporated into the first browser page and second browser page which interoperate to transfer values of data elements shared by the first application logic entity and the second application logic entity between the first browser page and the second browser page via incorporation of such values of data elements into browser page identifiers.

18. (Original) The computer system of claim 17 wherein:

the first application logic entity and the second application logic entity collectively form an application distributed across multiple browser pages; and

wherein the values of data elements shared by the first application logic entity and the second application logic entity collectively form state information that the state sender logic entity and the state retrieval logic entity, when performed within the browser, can pass between the first browser page and second browser page via browser page identifiers for use by the application.

19. (Currently Amended) A computer program product having a computer-readable medium including computer program logic encoded thereon for transferring information between logic entities in browser pages, such that the computer program logic, when performed on at least one processor within a computer system, causes the at least one processor to perform the operations of:

defining a data element having a value for use by a first application logic entity in a first browser page;

generating a browser page identifier for a second browser page, the browser page identifier including the value for the data element;

invoking access to a second browser page using the browser page identifier, the second browser page including a second application logic entity; and

retrieving the value of the data element from the browser page identifier for use by the second application logic entity;

wherein the step of generating a browser page identifier includes steps of:

i) extracting a value for each data element shared between the first application logic entity and the second application logic entity to create a value array;

ii) obtaining a page designator for the second browser page; and

iii) appending the value array containing the values for each data element to the page designator for the second browser page to form the browser page identifier; and

wherein the browser page identifier is a uniform resource locator that is dynamically generated via the steps of extracting, obtaining and appending and that contains the value of the data element shared by the first application logic entity and the second application logic entity.

20. (Currently Amended) A computer system comprising:

a processor;

a memory system; and

an interconnection mechanism coupling the input output interface, the processor and the memory system;

means for defining a data element in the memory system having a value for use by a first application logic entity in a first browser page in the memory system;

means for generating a browser page identifier in the memory system for a second browser page in the memory system, the browser page identifier including the value for the data element;

means for invoking access to a second browser page in the memory system using the browser page identifier, the second browser page including a second application logic entity in the memory system; and

means for retrieving the value of the data element from the browser page identifier for use by the second application logic entity in the memory system;

wherein the means for generating a browser page identifier includes:

i) means for extracting a value for each data element shared between the first application logic entity and the second application logic entity to create a value array;

ii) means for obtaining a page designator for the second browser page; and

iii) means for appending the value array containing the values for each data element to the page designator for the second browser page to form the browser page identifier; and

wherein the browser page identifier is a uniform resource locator that is dynamically generated via the means for extracting, obtaining and appending and that contains the value of the data element shared by the first application logic entity and the second application logic entity.

21. (Previously Presented) The method of claim 1, wherein generating the browser page identifier includes generating the browser page identifier



from within the first browser page in the browser, the method further comprising:

displaying the browser page identifier in the first browser page displayed to a user; and

receiving a selection by the user of the browser page identifier to retrieve the second browser page.

22. (Previously Presented) The method of claim 21 further comprising passing the value of the data element from the first browser page of the browser to the second browser page of the browser by:

appending the value of the data element associated with the first browser page to the browser page identifier;

in response to receiving the selection by the user, utilizing the browser page identifier to retrieve the second browser page; and

utilizing the data value in the second browser page of the browser.

23. (Previously Presented) The method of claim 1, wherein the steps of defining, generating, invoking, and retrieving support a step of:

exchanging data from script code associated with the first browser page to the second browser page not currently being viewed by a user of the browser.

24. (Previously Presented) The method of claim 1, wherein the steps of defining, generating, invoking, and retrieving support a step of:

maintaining state information between a portion of script code associated with the first browser page of the browser and another portion of script code associated with the second browser page of the browser.

25. (Previously Presented) A method as in claim 1 further comprising:

from a state sender logic entity of the first browser page associated with the browser, appending the value of the data element to the browser page identifier; and

from a state retrieval logic entity of the second browser page associated with the browser, receiving the value of the data element along with the browser page identifier.

26. (Previously Presented) A method as in claim 25 further comprising:
- from a state sender logic entity of the second browser page associated with the browser, appending the value of the data element to a browser page identifier associated with a third browser page; and
  - from a state retrieval logic entity of the third browser page associated with the browser, receiving the value of the data element along with the second browser page identifier.
27. (Previously Presented) The computer system as in claim 10, wherein generating the browser page identifier includes generating the browser page identifier from within the first browser page in the browser, the method further comprising:
- displaying the first browser page to a user
  - displaying, to the user, the browser page identifier in the first browser page displayed to the user; and
  - receiving a selection by the user of the browser page identifier in the first browser page to retrieve the second browser page.
28. (Previously Presented) The computer system as in claim 27 further supporting operations of passing the value of the data element from the first browser page of the browser to the second browser page of the browser by:

appending the value of the data element associated with the first browser page to the browser page identifier;  
in response to receiving the selection by the user, utilizing the browser page identifier to retrieve the second browser page; and  
utilizing the data value in the second browser page of the browser.

29. (Previously Presented) The computer system as in claim 10, wherein the steps of defining, generating, invoking, and retrieving support an operation of:

exchanging data from script code associated with the first browser page to the second browser page not currently being viewed by a user of the browser.

30. (Previously Presented) The computer system as in claim 10 supporting an operation of:

maintaining state information between a portion of script code associated with the first browser page of the browser and another portion of script code associated with the second browser page of the browser.

31. (Previously Presented) A computer system as in claim 10 further supporting:

from a state sender logic entity of the first browser page associated with the browser, appending the value of the data element to the browser page identifier; and

from a state retrieval logic entity of the second browser page associated with the browser, receiving the value of the data element along with the browser page identifier.

32. (Previously Presented) A computer system as in claim 31 further supporting:

from a state sender logic entity of the second browser page associated with the browser, appending the value of the data element to a browser page identifier associated with a third browser page; and

from a state retrieval logic entity of the third browser page associated with the browser, receiving the value of the data element along with the second browser page identifier.

33. (Previously Presented) A computer system as in claim 10 further supporting:

from a state sender logic entity of the first browser page associated with the browser, appending the value of the data element to the browser page identifier used to retrieve the second browser page; and

from a state retrieval logic entity of the second browser page associated with the browser, receiving the value of the data element appended to the browser page identifier for the second browser page by parsing the browser page identifier and retrieving the data element.

34. (Previously Presented) A computer system as in claim 33 further supporting:

from a state sender logic entity of the second browser page associated with the browser, modifying the value of the data element, appending the modified value of the data element to a browser page identifier used to retrieve a third browser page of the browser;

invoking access to the third browser page to the browser page identifier associated with the third browser page; and

from a state retrieval logic entity of the third browser page of the browser, receiving the modified value of the data element appended to the browser page identifier for the third browser page of the browser.

35. (Previously Presented) A computer as in claim 34, wherein the modified value includes a concatenation of a first string of data associated with the first browser page and a second string of data associated with the second browser page.
36. (Previously Presented) A computer as in claim 34, wherein the modified value includes an arithmetic result based on use of an arithmetic operation on a first numerical value associated with the first browser page and a second numerical value associated with the second browser page.
37. (Previously Presented) A computer system as in claim 33, wherein generating the browser page identifier for the second browser page includes providing a delimiter between a first portion and a second portion of the browser page identifier, the first portion of the browser page identifier used by a server to serve the second browser page to the browser, the second portion of the browser page identifier including the value of the data element being passed from the first browser page to the second browser page, the value of the data element being ignored by a server serving the second browser page to the browser.